

**WHAT IS CLAIMED IS:**

*Sub A7*

1. A method of inputting and processing a variety of user information for a digital mobile station, which includes a touch screen panel and a control module for processing touch screen data generated from the touch screen panel, the method comprising the steps of:

(a) repeatedly counting a predetermined time period in response to a write input mode;

(b) detecting the touch screen data generated from the touch screen panel at an interval of the predetermined time period;

10 (c) displaying and storing the touch screen data generated within the predetermined time period during the write input mode;

(d) determining whether a next touch screen data is generated from the touch screen panel within a next predetermined time period; and,

15 (e) if the next touch screen data is detected within the next predetermined time period, displaying and storing the next touch screen data.

2. The method according to Claim 1, wherein the method further comprises the step of connecting the touch screen data with the next touch screen data as a continuous line.

3. The method according to Claim 1, wherein the predetermined time period  
20 is determined so that processing the touch screen data generated from the touch screen

panel does not interfere with another predetermined time period assigned to the control module.

4. The method according to Claim 3, wherein the predetermined time period is set at one time slot in the control module and the another time period is set at another  
5 time slot in the control module.

5. The method according to Claim 4, wherein the predetermined time period defines a time period that is required for sampling the touch screen data.

6. The method according to Claim 5, wherein the predetermined time period  
10 set by a manufacturer of the control module.

7. A method of inputting and processing a variety of user information for a digital mobile station, which includes a touch screen panel and a control module for processing touch screen data generated from the touch screen panel, the method comprising the steps of:

15 (a) setting the mobile station in a write input mode;  
(b) determining whether a predetermined period of time has lapsed in response to the touch screen data generated from the touch screen panel during the write input mode;  
(c) determining whether the touch screen data is generated after the expiration of  
20 the predetermined time period;

(d) determining whether the generated touch screen data within the predetermined time period is one continuous line;

(e) if the generated touch data is one continuous line within the predetermined time period, displaying and storing the generated touch screen data in a display unit and a buffer of the mobile station, respectively; and,

(f) if the generated touch data is not one continuous line within the predetermined time period, displaying and storing the generated touch screen data as a new starting line in the display unit and the buffer of the mobile station, respectively.

10 8. The method according to Claim 7, wherein the method further comprising the step of detecting a next touch screen data generated within the predetermined time period and repeating the steps (d), (e), and (f).

15 9. The method according to Claim 8, wherein the predetermined time period is determined so that the processing the touch screen data generated from the touch screen panel does not interfere with another predetermined time period assigned to the control module.

20 10. The method according to Claim 9, wherein the predetermined time period is set at one time slot in the control module and the another time period is set at another time slot in the control module.

*SIP*  
*Q3*

11. A method of processing user information inputted through a touch screen panel for a digital mobile station, comprising the steps of:

(a) repeatedly detecting a series of touch screen data generated from the touch screen panel at an interval of a predetermined time during a write input mode; and,

5 (b) displaying the generated touch screen data in a display unit of the mobile station by connecting a series of the touch screen data generated at the predetermined time period interval if the touch screen data generated at the predetermined time period interval is a continuous line.

12. The method according to Claim 11, wherein the predetermined time period is determined so that processing the touch screen data generated from the touch screen panel does not interfere with another predetermined time period assigned to the control module.

13. The method according to Claim 12, wherein the predetermined time period is set at one time slot and the another time period is set at another time slot in a processor of the mobile phone.

10 14. The method according to Claim 13, wherein the predetermined time period defines a time period that is required for sampling the touch screen data.

15. The method according to Claim 14, wherein the predetermined time period set by a manufacturer of the control module.